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COMMONWEALTH of VIRGINIA

STATE WATER CONTROL BOARD

2111 Hamilton Street

22 February 1977

Executive Secretary

P.O. Box 1144
Richmond, Virginia 22231
(804) 769-1311

Please Reply To: Valley Regional Office
116 North Main Street
P. O. Box 268
Bridgewater, Virginia 22812
(703) 828-2595

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Mr. Clinton C. Shipman
Greenwood Chemical Company
P.O. Box 26
Greenwood, Virginia 22943

Dear Mr. Shipman:

Thank you for your letter of 9 February 1977 responding to our review comments concerning the plans for the system to handle the wastes from your Greenwood plant.

Please find below our response to your February 9 letter.

- Drawing #1 - The proposal for the surface type condenser is acceptable. Revised plans should be submitted.
- Drawing #2 - We were referring to the excavated area to the west of the survey base line.
- Drawing #4 - Austin Brockenbrough's suggested addition to note #1 is acceptable.

Conclusions:

It is still the opinion of the staff that ponds 1, 2 and 3 must be adequately lined with a suitable material unless it can be demonstrated that the ponds bottom out in an impermeable material, or that the ponds were previously constructed with a suitable liner material. The information supplied indicates the reasonable possibility that the ponds may bottom out in the silty sand horizon which uniformly underlies the drill hole area. This silty sand is not considered reasonably impermeable. The liner material may possibly be obtained from the borrow area if the silty clay material encountered in the drill holes at thicknesses which varied from 1.0 to 9.5 feet is present.

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22 February 1977

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Mr. Clinton C. Shipman

Page 7 Item B

As previously requested, please provide written notification from the Health Department concerning disposal of solid wastes.

Pending resolution of the lining requirements for the ponds 1, 2, and 3, and upon receipt of the modified drawings, the staff will recommend that the no discharge certificate be issued. Your continued efforts are appreciated. If there are further questions or if we may be of assistance, please contact this office.

Very truly yours,

C. T. Mizell

C. T. Mizell
Regional Planner

/jff

cc: Mr. William Bell, Austin Brockenbrough & Associates
BAT, Richmond
Bureau of Enforcement, Richmond
VRO File

AR000098

Greenwood Chemical Co.

STATE HIGHWAY 690
GREENWOOD, VIRGINIA 22943
TEL (703) 456-3531 - P.O. BOX 26

February 9, 1977

Valley Regional Office
116 North Main Street
P. O. Box 208
Bridgewater, VA 22812
ATTN: Tom Sizell

Dear Mr. Sizell:

In reference to your letter dated January 19, 1977, I have discussed the following with our engineers, and the following is in reply to your questions:

Drawing #1

1. In place of a barometric condenser suggested, we use a surface-type condenser with the distillate going to Pond #5 as you suggested.
2. We agree with you on this matter, and will discharge the condensed liquid to Pond #5 with a three-inch drain line going to Pond #5.

Drawing #2

Is this the pit that we have been putting our empty drums in? We are confused as to exactly what pit you are speaking of.

Drawing #4

This could be done without much trouble, so we agree on this. I do not think Mr. Sizell understood your request.

Drawing #7

Once the type of condenser has been designated, then we will be able to give structure details as to framework and building should we decide to build a building.

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VALLEY REGIONAL
OFFICE

Mr. Tom Sizell
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February 9, 1977


Conclusion

Enclosed find a copy of a letter from William Bell, the engineer, which should help to explain the answers to your questions.

In regards to written notification from the State Health Dept., they have inspected the pit and we will request written notification about the solid waste material.

The reason for the delay in answering this letter is the weather conditions. We have not operated our plant since January 1 due to the conditions.

Cordially,


Clint C. Shipman, President
Greenwood Chemical Company

Enclosure:1

cc: William Bell, E.E.

CCS/tsl

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AUSTIN BROCKENBROUGH AND ASSOCIATES

114 EAST CARY STREET • RICHMOND, VIRGINIA 23219

TELEPHONE: 804/644-9493

JAMES A. WHITT P.E., C.E.S.
ALEXANDER B. SAGLER JR. P.E.
GERALD E. KILGORE
BUSINESS DIRECTOR

CONSULTING ENGINEERS

February 1, 1977

CONSULTANT
AUSTIN BROCKENBROUGH, P.E.
ASSOCIATE
WILLIAM F. BELL, P.E.

Mr. Clinton C. Shipman
Greenwood Chemical Company
P. O. Box 26
Greenwood, Virginia 22923

RE: Greenwood Chemical Company
Industrial Waste System

Dear Mr. Shipman:

The following information is furnished to assist in your response to the State Water Control Board's letter of January 19, 1977:

Drawing #1

1. In lieu of a barometric condenser, we would recommend a surface type condenser which would permit the cooling water to be used without contamination by the condensing vapors from the evaporator. This can be accomplished for practically the same capital expense and satisfy the State Water Control Board's request.
2. Their suggestion to discharge the condensed liquid to pond #5 should be accepted. A small 3-inch drain line could be piped to this pond.

Drawing #2

We are not certain which area they are discussing, but we can easily identify it on the plans when it is specifically indicated.

Drawing #3

We suggest that the following be added to note #1, in lieu of their request:

"After pits have been drained, apply hypochlorite over entire area before covering with earth."

This should neutralize the products and not create problem of disposal of material or liquids.

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Mr. Clinton C. Shipman
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Drawing #7

No comment. They can require further specific details of construction.

Conclusion

We suggest this point be challenged since the soils in the areas of Ponds 1, 2, and 3 is identical to the borrow area materials that they have indicated as a possible acceptable source of a ~~filled~~ material.

The comment concerning solid waste disposal site must be approved in accordance with the State Health Department regulations. We assume that you have been in contact with the appropriate authorities to obtain the required approvals.

We can make the above changes required to the drawings promptly, however, we will not proceed with any changes until instructed by you. If you have any further questions or comments, please contact our office.

Yours very truly,

William F. Bell

William F. Bell
Associate

WFB:jmw

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